

## NSLS OHSAS Job Risk Assessment

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<b>Name(s) of Risk Team Members:</b> R. D'Alsace, M. Fulkerson, N. Gmür, K. Pedersen, G. Ramirez, J. Vaughn	<b>Point Value → Parameter ↓</b>	1	2	3	4	5
<b>Job Title:</b> <span style="color: blue; font-weight: bold;">Work with Enclosed RF Systems</span>  <b>Job Number or Job Identifier:</b> <span style="color: blue; font-weight: bold;">LS-JRA-0031</span>	<b>Frequency (B)</b>	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
<b>Job Description:</b> RF Systems	<b>Severity (C)</b>	First Aid Only Or Rad Stop Work or RAR	Medical Treatment Or Rad ORPS	Lost Time Or Rad NTS	Partial Disability Or DOE violation or fine	Death or Permanent Disability Or DOE Rad Stand Down
Training and Procedure List (Optional):	<b>Likelihood (D)</b>	Extremely Unlikely <<1x/20yrs	Unlikely 1x/10-20yrs	Possible >1x/10-20yrs	Probable 1x/yr	Multiple >1x/yr
Approved by: <b>W. R. Casey</b> Date: <b>10/14/2005</b> Rev. #: <b>1</b> <a href="#">Revision Log</a>	<b>Stressors (if applicable, please list all):</b>		<b>Reason for Revision (if applicable):</b>		<b>Comments:</b>	

		Before Controls							After Initial Controls						After Additional Controls					
Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
New RF cavity conditioning	Ionizing radiation	N	1	1	3	4	12	Radiation monitoring and posting as needed, specific procedure, shielded test cave, interlocks	1	1	3	1	3							

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Job Step / Task	Hazard	Before Controls						Initial Controls	After Initial Controls					Control(s) Added to Reduce Risk	After Additional Controls					
		Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD		# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
New RF cavity conditioning	RF leakage	N	1	1	2	4	8	RF monitoring as needed, specific procedure, interlocks, equipment meets SBMS RF subject area specifications	1	1	2	1	2							
In-place RF cavity conditioning	Ionizing radiation	N	1	2	3	5	30	Interlocks, exclusion barriers as needed, posting, announcements	1	2	3	1	6							
	RF leakage	N	1	2	2	5	20	RF monitoring as needed, procedures, testing after repairs & configuration changes, interlocks, equipment meets SBMS RF subject area requirements	1	2	2	1	4							
Adding new RF equipment, major repairs of existing RF equipment	Ionizing radiation	N	1	1	3	4	12	Shielding, radiation monitoring and posting as needed	1	1	3	1	3							
	RF leakage	N	1	1	2	4	8	RF monitoring as needed, procedures, interlocks, testing after repairs & changes, equipment meets SBMS RF subject area requirements	1	1	2	1	2							
Mechanical Material handling	See LS-JRA-0019																			

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Job Step / Task	Hazard	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Initial Controls	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Manual Material handling	See <b>LS-JRA-0018</b>																			
Work with vacuum systems	See <b>LS-JRA-0008</b>																			
Electrical work in range B in a zero energy state	See <b>LS-JRA-0002</b>																			
Electrical work in range B in an energized state	See <b>LS-JRA-0003</b>																			
Performing LOTO	See JRA <b>LS-JRA-0005</b>																			
Work with cooling water systems	See JRA <b>LS-JRA-0012</b>																			
Further Description of Controls Added to Reduce Risk:																				
<b>*Risk:</b>	<b>0 to 20 Negligible</b>	<b>21 to 40 Acceptable</b>						<b>41 to 60 Moderate</b>					<b>61 to 80 Substantial</b>					<b>81 or greater Intolerable</b>		